

Amendments to the Claims

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A digital-to-analog converting circuit comprising:

- a first potential terminal for supplying a first potential;
- a second potential terminal for supplying a second potential;
- an output node for outputting an analog signal;
- a first resistor circuit having a plurality of first resistors connected in series between a first node and the output node through a plurality of first connecting points;
- a first switching circuit having a plurality of first switches each of which is connected ~~between~~ directly to the first potential terminal₁ and ~~[[one]]~~ to respective ones of the first connecting points and the first node;
- a second resistor circuit having a plurality of second resistors connected in series between a second node and the output node through a plurality of second connecting points;
- a second switching circuit having a plurality of second switches each of which is connected ~~between~~ directly to the second potential terminal₁ and ~~[[one]]~~ to respective ones of the second connecting points and the second node; and

a control circuit connected to the first and second switching circuits for controlling the first and second switches.

Claim 2 (Canceled)

Claim 3 (Original): A digital-to-analog converting circuit according to claim 1, wherein the second switching circuit further has a second switch connected between the second potential terminal and the output node.

Claim 4 (Original): A digital-to-analog converting circuit according to claim 1, wherein the first switches are P-channel type MOS transistors and the second switches are N-channel type MOS transistors.

Claim 5 (Original): A digital-to-analog converting circuit according to claim 1, wherein the control circuit includes a first decoder for controlling the first switches and a second decoder for controlling the second switches.

Claim 6 (Original): A digital-to-analog converting circuit according to claim 1, wherein the first potential is a reference potential and the second potential is a ground potential.

Claim 7 (Original): A digital-to-analog converting circuit according to claim 1, further

comprising an amplifier connected to the output node for amplifying the analog signal.

Claim 8 (Currently Amended): A digital-to-analog converting circuit comprising:

- a first potential terminal supplying a first potential;
- a second potential terminal supplying a second potential;
- an output node providing an analog signal;
- a plurality of first resistors connected in series between a first node and the output node, the first resistors being connected to each other at a plurality of first connecting points;
- a plurality of first switches each of which is connected directly to ~~between~~ the first potential terminal, and ~~[[one]]~~ to respective ones of the first connecting points and the first node;
- a plurality of second resistors connected in series between a second node and the output node, the second resistors being connected to each other at a plurality of second connecting points;
- a plurality of second switches each of which is connected directly to ~~between~~ the second potential terminal, and ~~[[one]]~~ to respective ones of the second connecting points and the second node; and
- a control circuit connected to control the first and second switches.

Claim 9 (Canceled)

Claim 10 (Original): A digital-to-analog converting circuit according to claim 8, further comprising an additional second switch connected between the second potential terminal and the output node.

Claim 11 (Original): A digital-to-analog converting circuit according to claim 8, wherein the first switches are P-channel type MOS transistors and the second switches are N-channel type MOS transistors.

Claim 12 (Original): A digital-to-analog converting circuit according to claim 8, wherein the control circuit includes a first decoder for controlling the first switches and a second decoder for controlling the second switches.

Claim 13 (Original): A digital-to-analog converting circuit according to claim 8, wherein the first potential is a reference potential and the second potential is a ground potential.

Claim 14 (Original): A digital-to-analog converting circuit according to claim 8, further comprising an amplifier connected to the output node for amplifying the analog signal.

Claim 15 (Currently Amended): A digital-to-analog converting circuit comprising:
a first potential terminal supplying a first potential;
a second potential terminal supplying a second potential;

an analog node providing an analog signal;

a plurality of first resistors connected in series between a first node and the analog node through a plurality of first connecting nodes;

a plurality of first switches each of which is connected ~~between~~ directly to the first potential terminal₁ and ~~[[one]]~~ to respective ones of the first connecting nodes and the first node;

a plurality of second resistors connected in series between a second node and the output node through a plurality of second connecting nodes;

a plurality of second switches each of which is connected ~~between~~ directly to the second potential terminal₁ and ~~[[one]]~~ to respective ones of the second connecting nodes and the second node; and

a control circuit connected to control the first and second switches.

Claim 16 (Canceled)

Claim 17 (Original): A digital-to-analog converting circuit according to claim 15, further comprising an additional second switch connected between the second potential terminal and the output node.

Claim 18 (Original): A digital-to-analog converting circuit according to claim 15, wherein the first switches are P-channel type MOS transistors and the second switches are N-

channel type MOS transistors.

Claim 19 (Original): A digital-to-analog converting circuit according to claim 15, wherein the control circuit includes a first decoder for controlling the first switches and a second decoder for controlling the second switches.

Claim 20 (Original): A digital-to-analog converting circuit according to claim 15, wherein the first potential is a reference potential and the second potential is a ground potential.

Claim 21 (Original): A digital-to-analog converting circuit according to claim 15, further comprising an amplifier connected to the output node for amplifying the analog signal.